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Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently amended) A glucose level measuring method using glucose dehydrogenase for measuring a glucose level by utilizing a reaction system containing glucose, an enzyme and an electron carrier,

wherein the enzyme is glucose dehydrogenase to which cytochrome C is attached and which is separate from the electron carrier; and

wherein the electron carrier is a Ru compound represented by a chemical formula as follows:



where X represents NH₃, halogen ion, CN, pyridine, nicotinamide or H₂O, and n+ represents a valency of the Ru complex, which is determined by the kind of X, the method comprising:

causing the enzyme cytochrome C attached glucose dehydrogenase to oxidize the glucose while reducing the Ru compound electron carrier;

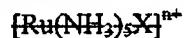
applying a voltage to the reaction system for causing the Ru compound electron carrier to release electrons; and

detecting the electrons released by the Ru compound electron carrier as a response current; and

computing the glucose level based on the detected response current;

wherein the enzyme is glucose dehydrogenase to which cytochrome C is attached and which is separate from the electron carrier; and

wherein the electron carrier is a Ru compound represented by a chemical formula:



where X represents NH₃, halogen ion, CN, pyridine, nicotinamide or H₂O, and n+ represents a valence of the Ru complex, which is determined by the kind of X.

2. (Original) The glucose level measuring method according to claim 1, wherein the cytochrome C is derived from a microorganism belonging to a burkholderia genus.
3. (Original) The glucose level measuring method according to claim 1, wherein the cytochrome C has a molecular weight of about 43 kDa in SDS-polyacrylamide gel electrophoresis under a reduced condition.
4. (Canceled)
5. (Original) The glucose level measuring method according to claim 1, wherein the glucose dehydrogenase includes an α subunit having a glucose dehydrogenase activity and a molecular weight of about 60 kDa in SDS-polyacrylamide gel electrophoresis under a reduced condition.
6. (Original) The glucose level measuring method according to claim 1, wherein the glucose dehydrogenase includes a γ subunit having a molecular weight of about 14 kDa in SDS-polyacrylamide gel electrophoresis under a reduced condition.

7-32. (Canceled)